

Assignment 8

Ans-1. #include <stdio.h>
#include <conio.h>

```
int main()  
{  
    int x;  
    printf("Enter a number");  
    scanf("%d", &x);  
    if (x % 3 == 0)  
        printf("Divisible by 3");  
    else  
    {  
        if (x % 2 == 0)  
            printf("Divisible by 2");  
        else  
            printf("Not Divisible by 2 and 3");  
    }  
    getch();  
}
```

Ans-3 #include <stdio.h>

```
int main()  
{  
    int x;  
    printf("Enter a number");  
    scanf("%d", &x);
```

```
if (x > 0)
    printf ("Positive");
else
{
    if (x < 0)
        printf ("Negative");
    else
        printf ("Zero");
}
}
```

Ans-4 #include <stdio.h>

Ans-6

```
int main()
{
    int year;
    printf ("Enter the year");
    scanf ("%d", &year);
    if (year % 4)
        printf ("Not a leap year");
    else
        printf ("Leap year");
}
```

Ans-5 #include <stdio.h>

```
int main()
{
    int x, y, z;
    printf ("Enter three Numbers");
}
```



```
scanf ("%d %d %d", &x, &y, &z);  
if (x >= y && x >= z)  
    printf ("Greatest is %d", x);  
else  
{  
    if (y >= z)  
        printf ("Greatest is %d", y);  
    else  
        printf ("Greatest is %d", z);  
}
```

Ans-6. #include <stdio.h>

int main()

{

char ch;

printf ("Enter a character");

scanf ("%c", &ch);

if (ch >= '0' && ch <= '9')

printf ("Digit");

else if (ch >= 'A' && ch <= 'Z')

printf ("Upper case");

else if (ch >= 'a' && ch <= 'z')

printf ("Lower case");

else

printf ("Special character");

}

Ans-7

#include <stdio.h>

int main()

{ int side1, side2, side3

printf("Enter length of triangle");

scanf("%d %d %d", &side1, &side2, &side3);

if (side1 + side2 > side3 && side2 + side3 > side1

&& side1 + side3 > side2)

printf("Valid Triangle");

else

printf("Not a valid Triangle");

}

Ans-8

#include <stdio.h>

int main()

{

int y;

printf("Enter month number");

scanf("%d", &y);

if (y == 2)

printf("28 Days");

else

{

if (y == 1 || y == 3 || y == 5 || y == 7

|| y == 8 || y == 10 || y == 12)

printf("31 Days");

else

printf("30 Days");

}

}

Ques-10. #include <stdio.h>

int main ()

{ int a[5];

int i, sum = 0, ob;

printf ("Enter marks");

for (i = 0; i <= 4; i++)

{

scanf ("%d", &a[i]);

}

for (i = 0; i <= 4; i++)

{

sum = sum + a[i];

}

ob = (float) sum / 500 * 100.0;

if (ob >= 90)

printf ("Grade A");

else if (ob >= 80)

printf ("Grade B");

else if (ob >= 70)

printf ("Grade C");

elseif (ob >= 60)

printf ("Grade D");

else if (ob >= 40)

printf ("Grade E");

else

printf ("Grade F");

}